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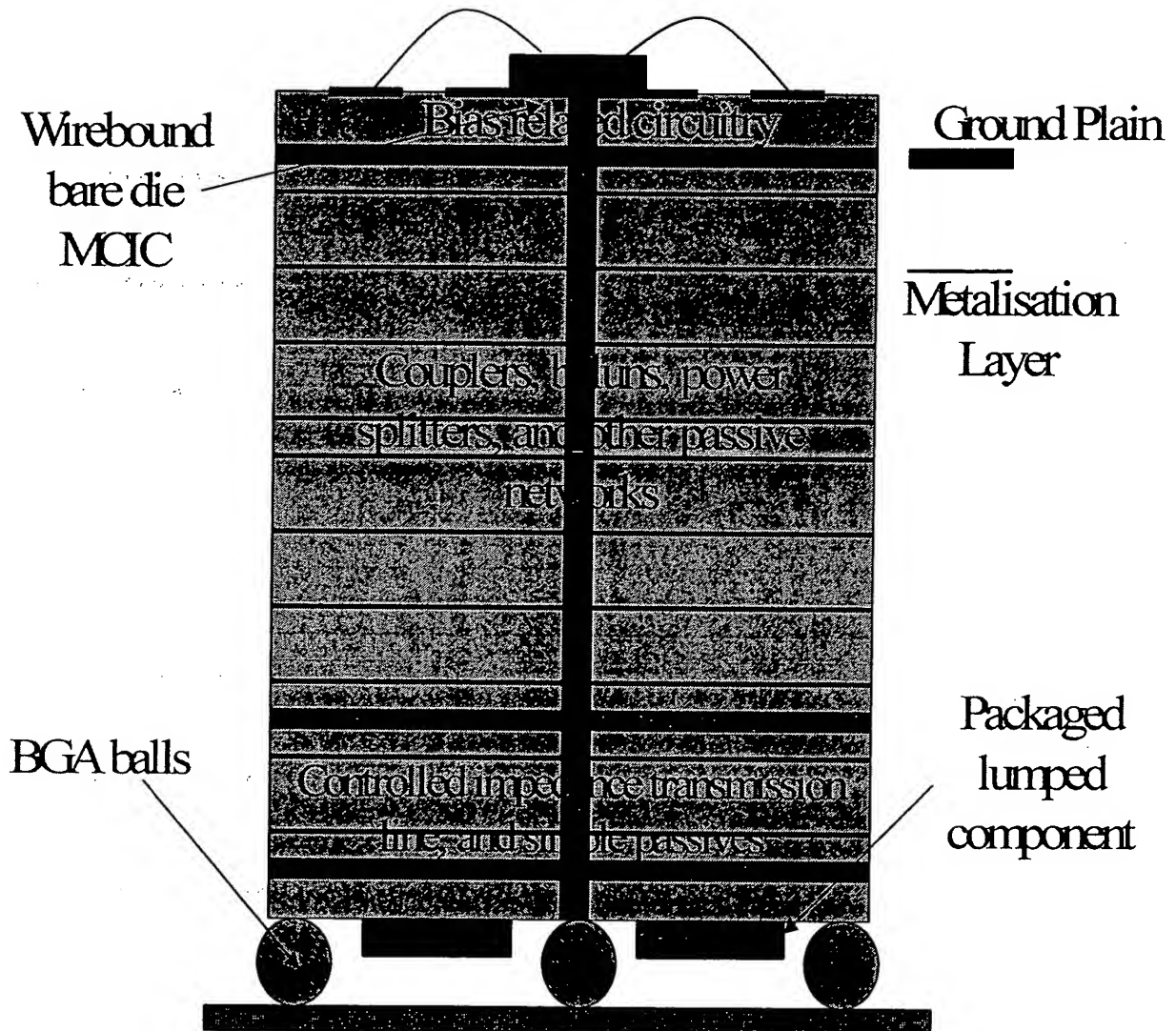


Fig. 1
(PRIOR ART)

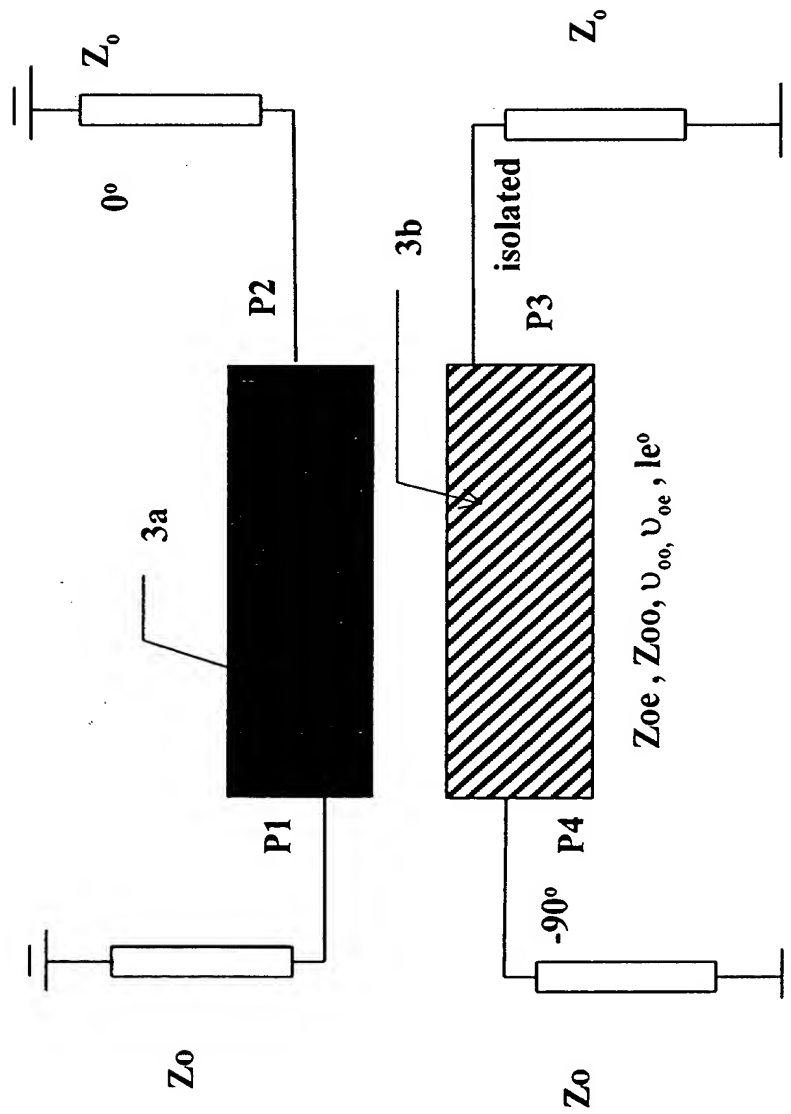


Fig. 2
(PRIOR ART)

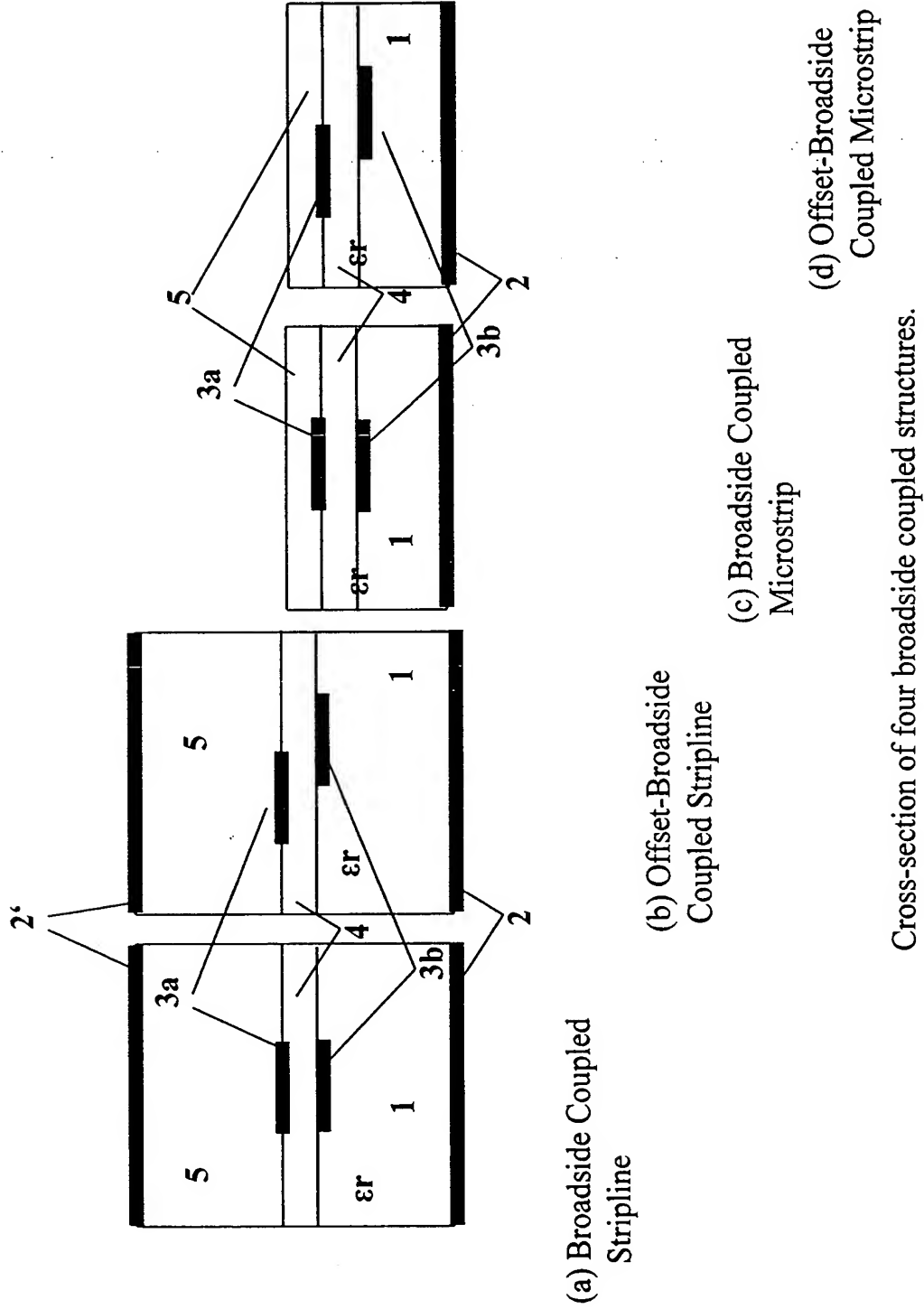


Fig. 3
(PRIOR ART)

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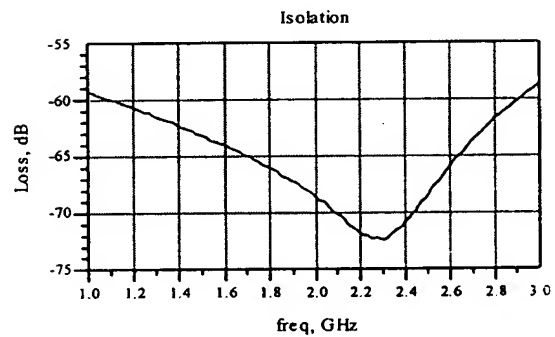
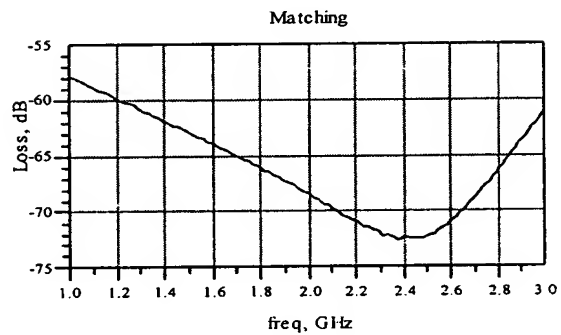
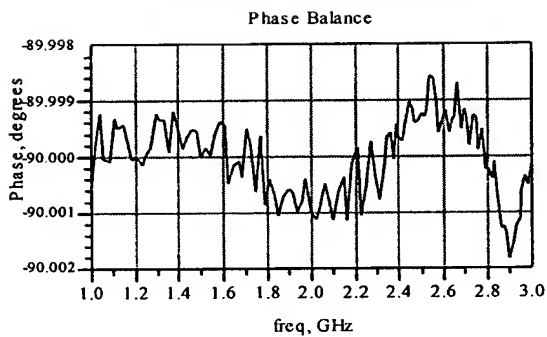
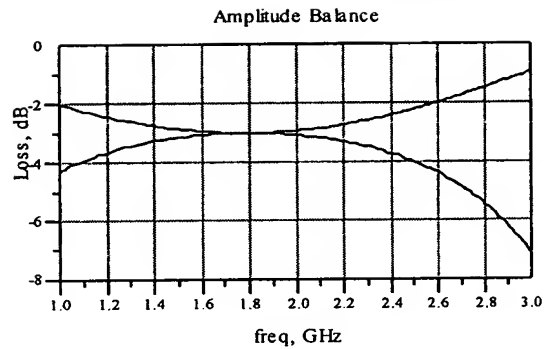
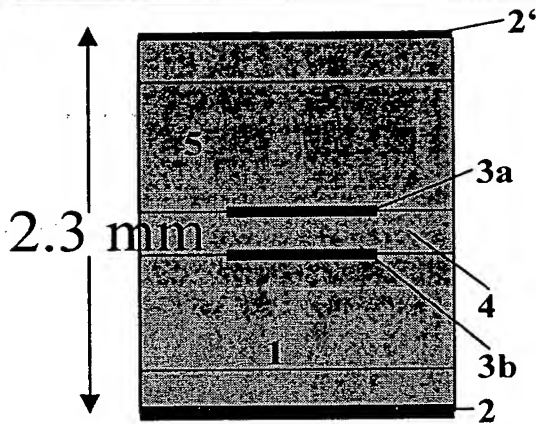
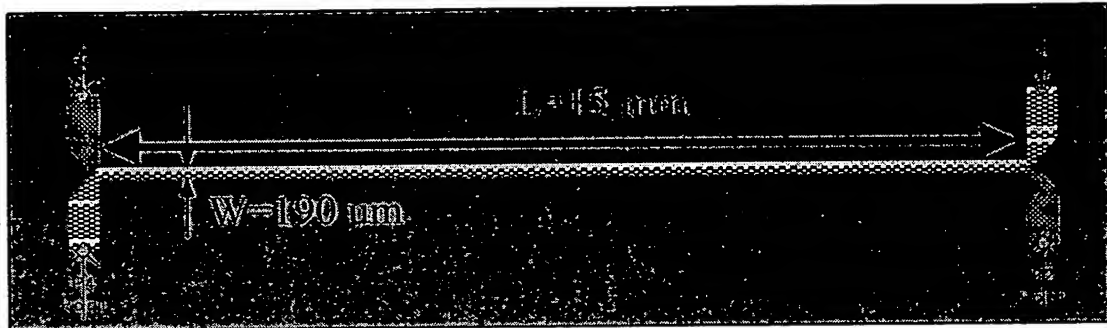


Figure 4. Conventional broadside coupled stripline coupler. Transmission line width $W = 190 \mu\text{m}$; physical length $L = 15 \text{ mm}$; substrate thickness 2.3 mm ; structure designed in LTCC of $\epsilon_r = 7.8$.

Fig. 4
(PRIOR ART)

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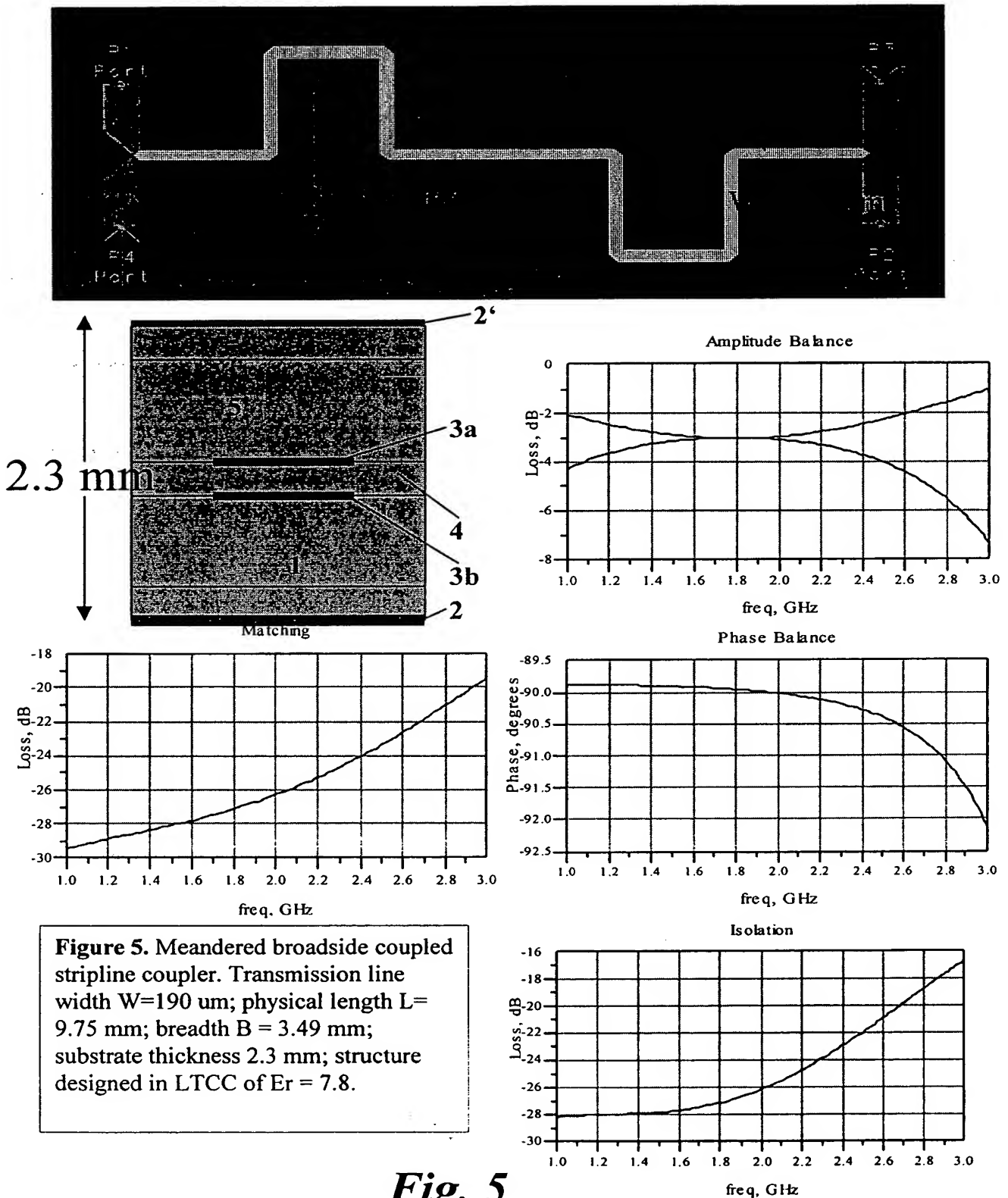


Figure 5. Meandered broadside coupled stripline coupler. Transmission line width $W=190 \text{ } \mu\text{m}$; physical length $L=9.75 \text{ mm}$; breadth $B=3.49 \text{ mm}$; substrate thickness 2.3 mm ; structure designed in LTCC of $\epsilon_r = 7.8$.

Fig. 5
(PRIOR ART)

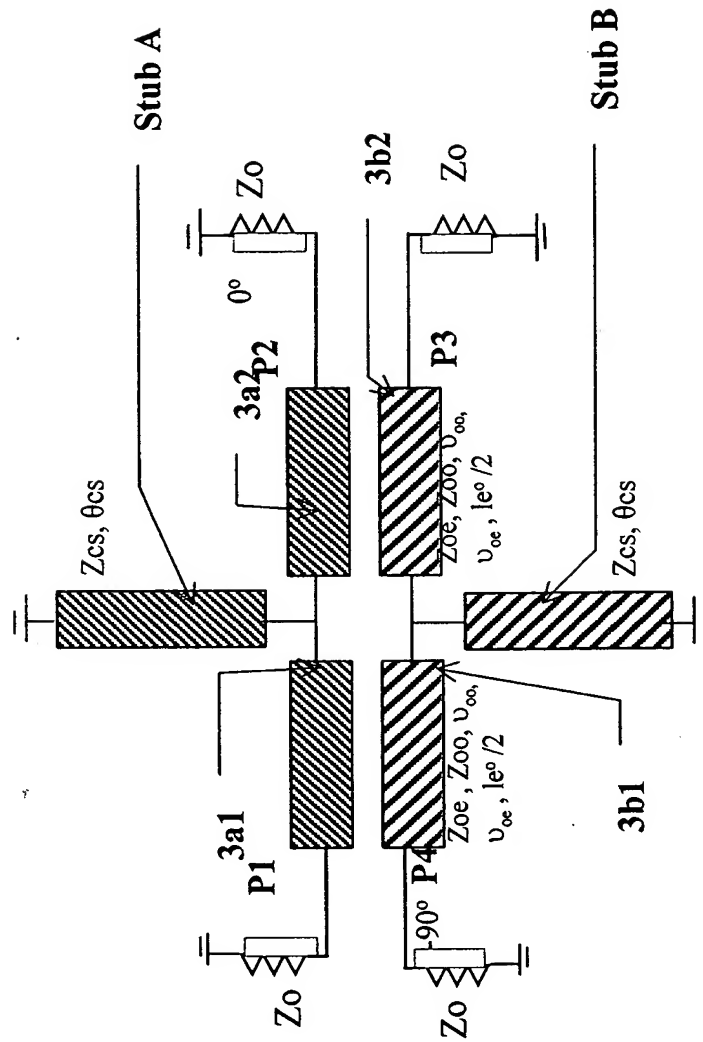


Fig. 6



Fig. 7

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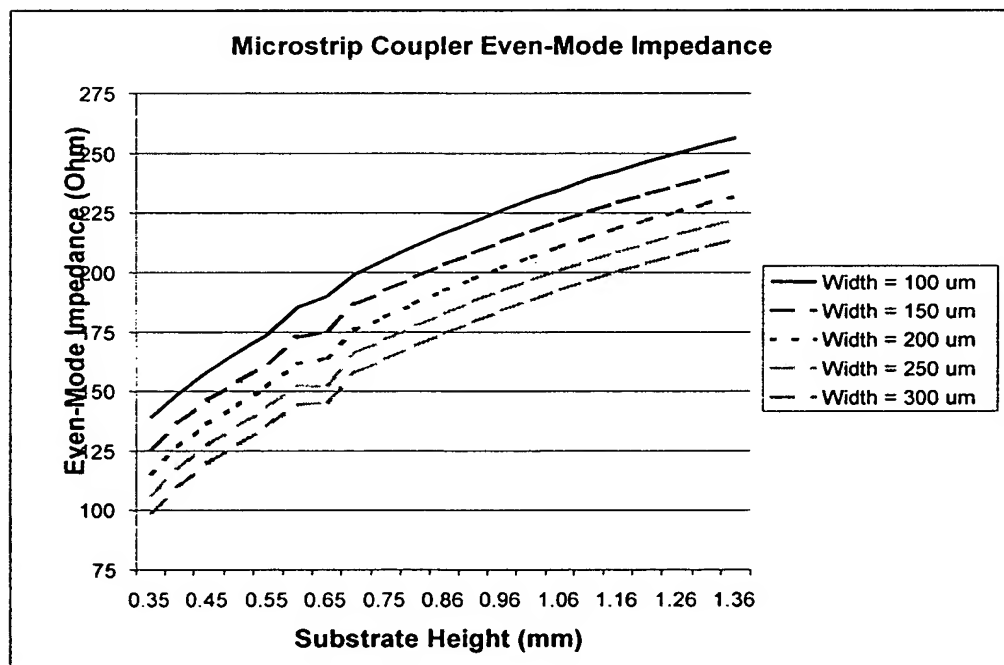
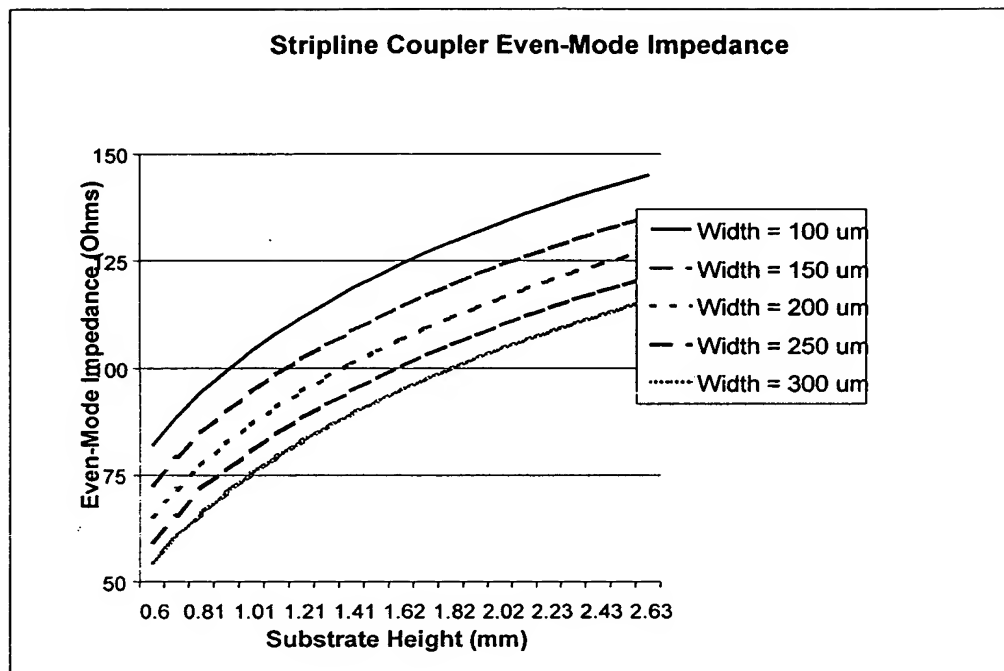
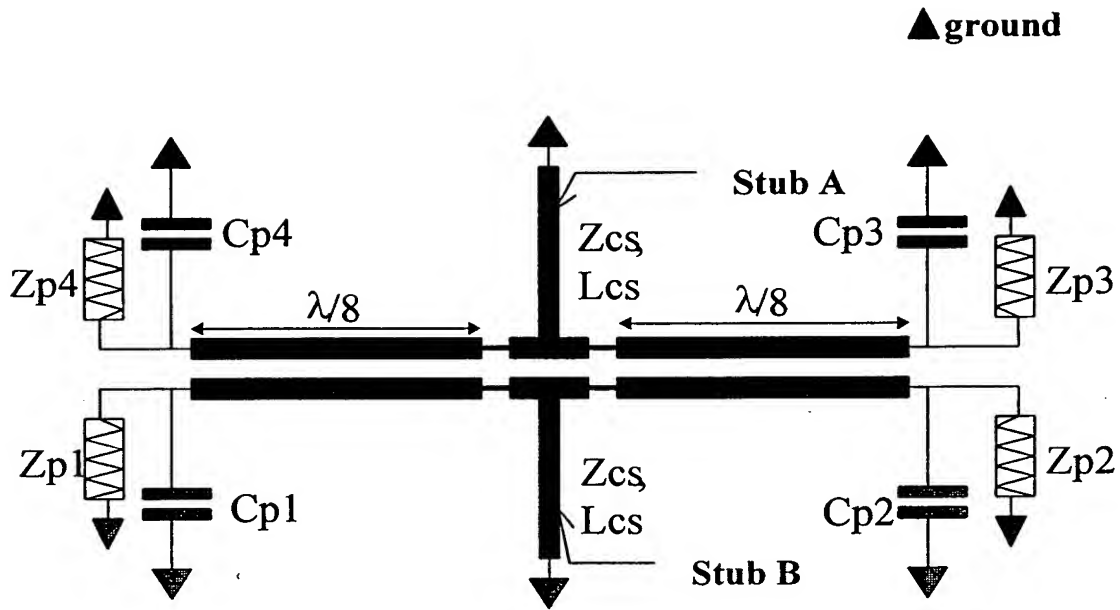
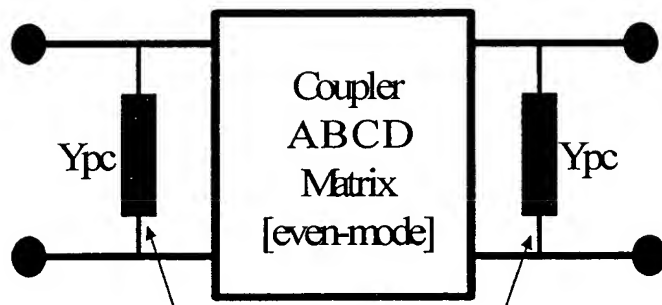


Fig. 8

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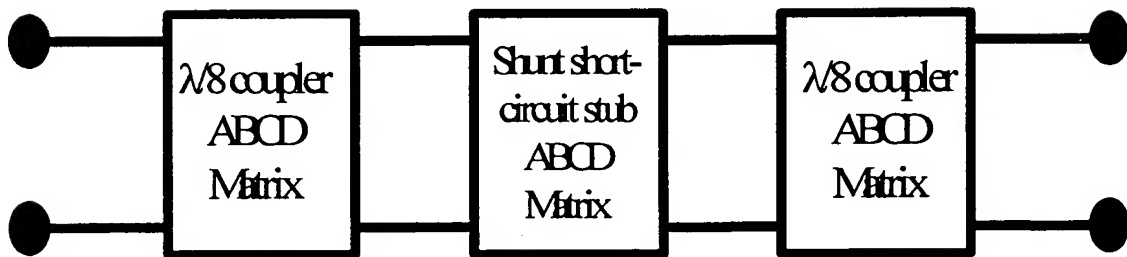


A)



B)

Representing capacitors to ground



C)

Fig. 9

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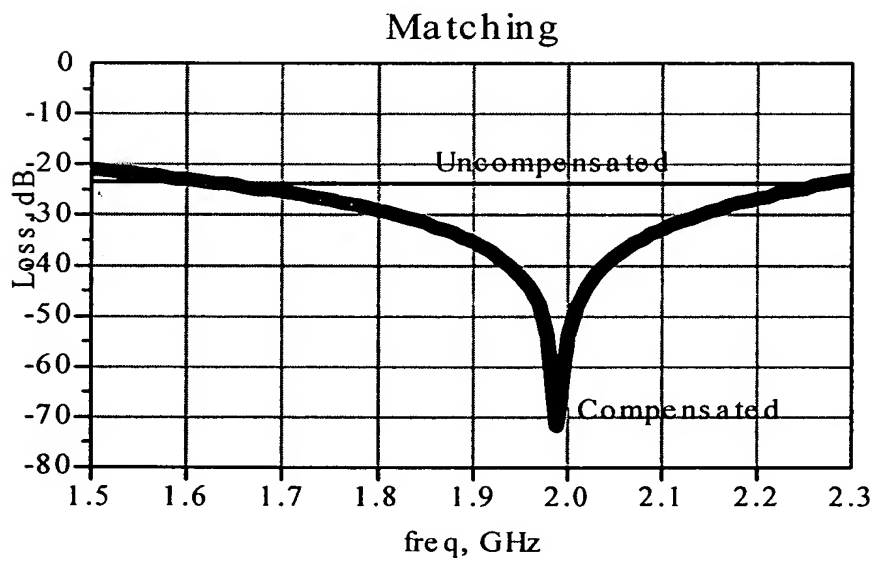
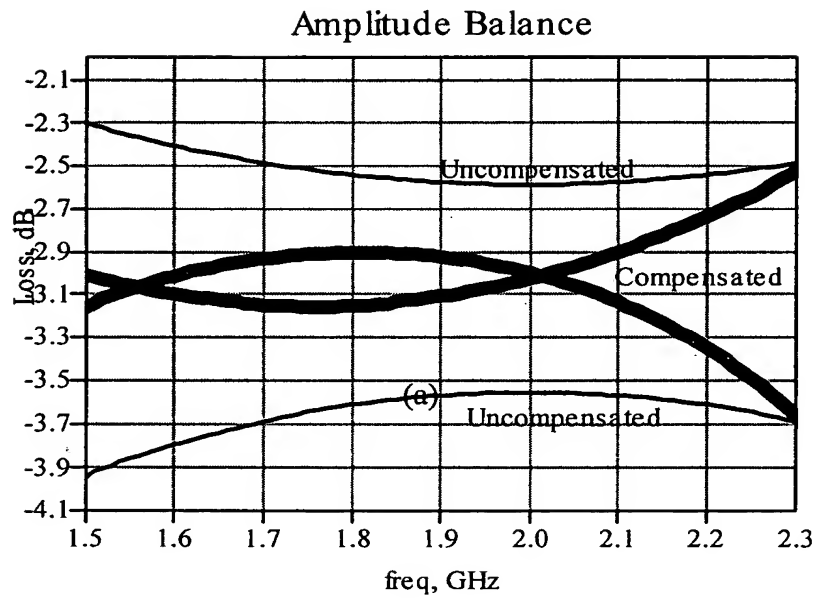


Fig. 10

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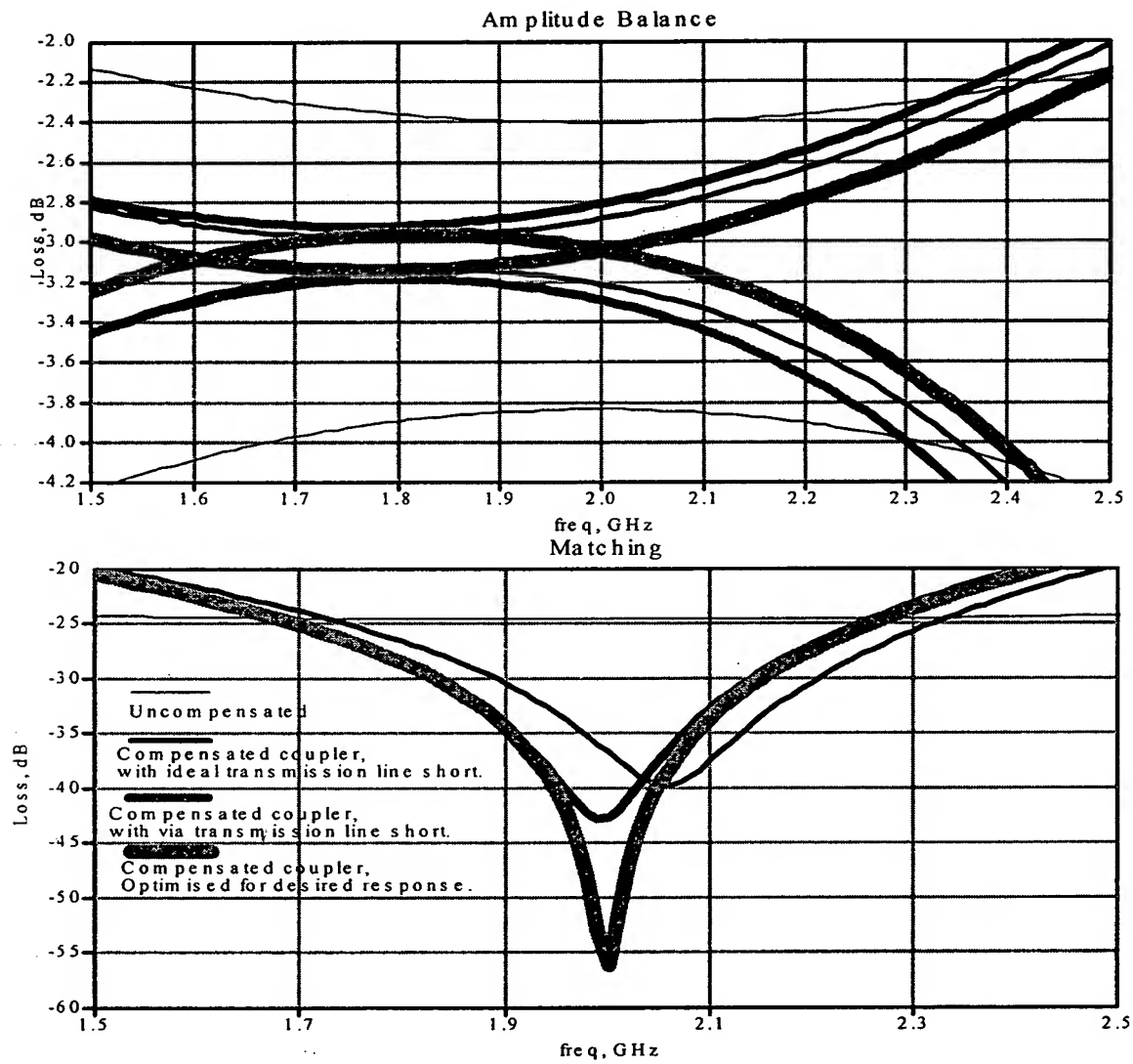


Fig. 11

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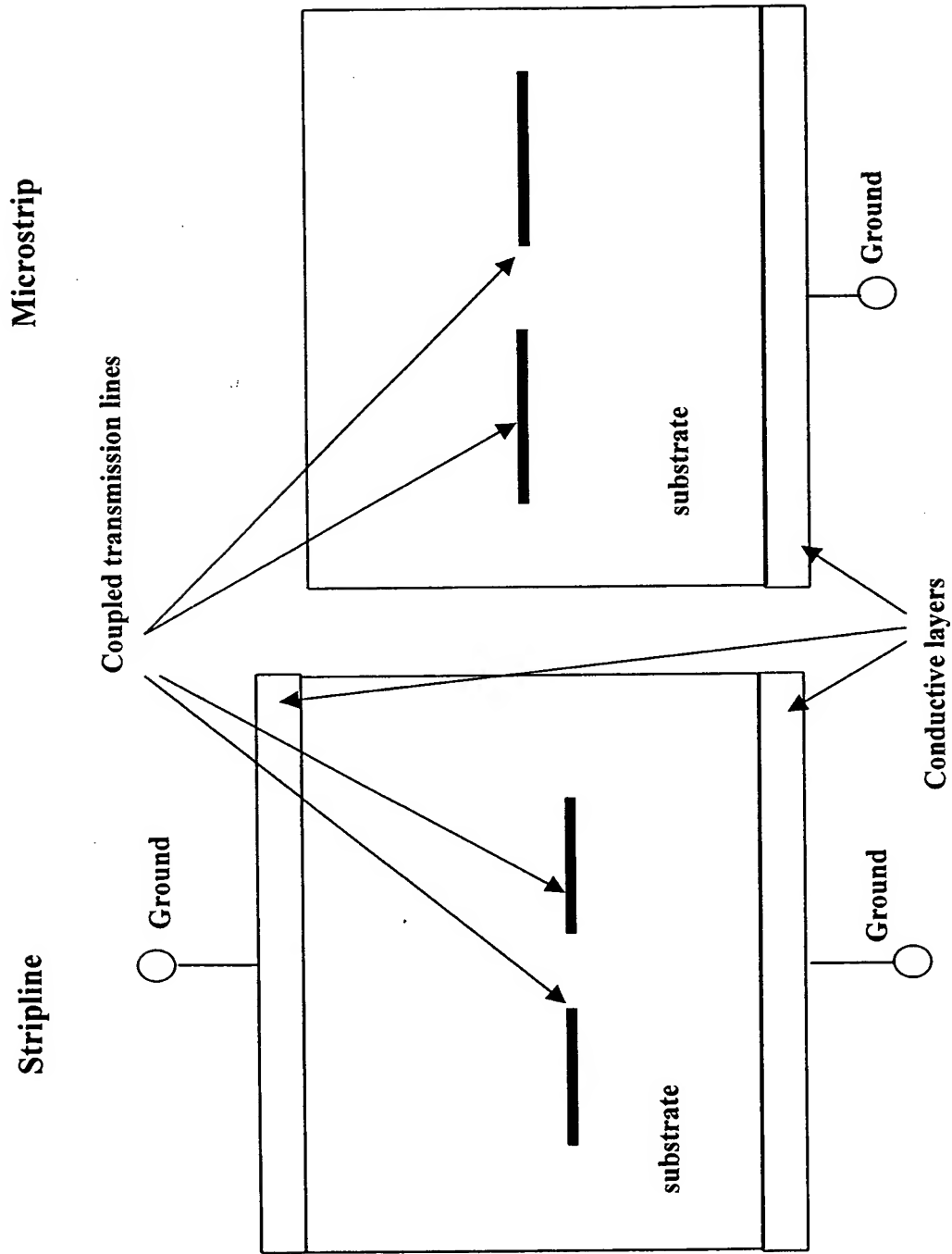


Fig. 12
(PRIOR ART)